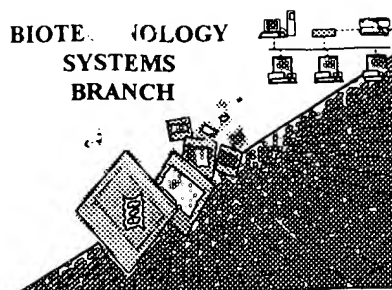


**RAW SEQUENCE LISTING**  
**ERROR REPORT**



#16/  
Raw  
Seq.  
Listing

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 09/310,844A

Source: O/PE

Date Processed by STIC: 6/5/2001

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JUL 27 2001

TECH CENTER 1600/2900

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.

FOR SEQUENCE RULES INTERPRETATION, PLEASE CONTACT ROBERT WAX, 703-308-4216.

PATENTIN 2.1 e-mail help: [patin21help@uspto.gov](mailto:patin21help@uspto.gov) or phone 703-306-4119 (R. Wax)

PATENTIN 3.0 e-mail help: [patin3help@uspto.gov](mailto:patin3help@uspto.gov) or phone 703-306-4119 (R. Wax)

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER VERSION 3.0 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW:

**Checker Version 3.0**

The Checker Version 3.0 application is a state-of-the-art Windows based software program employing a logical and intuitive user-interface to check whether a sequence listing is in compliance with format and content rules. Checker Version 3.0 works for sequence listings generated for the original version of 37 CFR §§1.821 – 1.825 effective October 1, 1990 (old rules) and the revised version (new rules) effective July 1, 1998 as well as World Intellectual Property Organization (WIPO) Standard ST 25.

Checker Version 3.0 replaces the previous DOS-based version of Checker, and is Y2K-compliant. Checker allows public users to check sequence listings in Computer Readable form (CRF) before submitting them to the United States Patent and Trademark Office (USPTO). Use of Checker prior to filing the sequence listing is expected to result in fewer errored sequence listings, thus saving time and money.

Checker Version 3.0 can be down loaded from the USPTO website at the following address:

<http://www.uspto.gov/web/offices/pac/checker>

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JUL 27 2001

## Raw Sequence Listing Error Summary

TECH CENTER 1600/2900

ERROR DETECTEDSUGGESTED CORRECTIONSERIAL NUMBER: 09/31/844A

ATTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE

- 1      Wrapped Nucleics  
    Wrapped Aminos    The number/text at the end of each line "wrapped" down to the next line. This may occur if your file was retrieved in a word processor **after** creating it. Please adjust your right margin to .3; this will prevent "wrapping."
- 2      Invalid Line Length    The rules require that a line not exceed 72 characters in length. This includes white spaces.
- 3      Misaligned Amino  
    Numbering    The numbering under each 5<sup>th</sup> amino acid is misaligned. Do not use tab codes between numbers; use **space characters**, instead.
- 4      Non-ASCII    The submitted file was not saved in ASCII(DOS) text, as required by the Sequence Rules. Please ensure your subsequent submission is saved in ASCII text.
- 5      Variable Length    Sequence(s)      contain n's or Xaa's representing more than one residue. **Per Sequence Rules, each n or Xaa can only represent a single residue.** Please present the maximum number of each residue having variable length and indicate in the <220>-<223> section that some may be missing.
- 6      PatentIn 2.0  
    "bug"    A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid sequences(s)     . Normally, PatentIn would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to the subsequent amino acid sequence. **This applies to the mandatory <220>-<223> sections for Artificial or Unknown sequences.**
- 7      Skipped Sequences  
    (OLD RULES)    Sequence(s)      missing. If intentional, please insert the following lines for each skipped sequence:  
    (2) INFORMATION FOR SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)  
    (i) SEQUENCE CHARACTERISTICS: (Do not insert any subheadings under this heading)  
    (xi) SEQUENCE DESCRIPTION:SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)  
    This sequence is intentionally skipped  
  
    Please also adjust the "(ii) NUMBER OF SEQUENCES:" response to include the skipped sequences.
- 8      Skipped Sequences  
    (NEW RULES)    Sequence(s)      missing. If intentional, please insert the following lines for each skipped sequence.  
    <210> sequence id number  
    <400> sequence id number  
    000
- 9      Use of n's or Xaa's  
    (NEW RULES)    Use of n's and/or Xaa's have been detected in the Sequence Listing.  
    Per 1.823 of Sequence Rules, use of <220>-<223> is MANDATORY if n's or Xaa's are present.  
    In <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents.
- 10      Invalid <213>  
    Response    Per 1.823 of Sequence Rules, the only valid <213> responses are: Unknown, Artificial Sequence, or scientific name (Genus/species). <220>-<223> section is required when <213> response is Unknown or is Artificial Sequence
- 11      Use of <220>    Sequence(s) 108 and more missing the <220> "Feature" and associated numeric identifiers and responses. Use of <220> to <223> is MANDATORY if <213> "Organism" response is "Artificial Sequence" or "Unknown." Please explain source of genetic material in <220> to <223> section.  
    (See "Federal Register," 06/01/1998, Vol. 63, No. 104, pp. 29631-32) (Sec. 1.823 of Sequence Rules)
- 12      PatentIn 2.0  
    "bug"    Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing). Instead, please use "File Manager" or any other manual means to copy file to floppy disk.

OIPE

## RAW SEQUENCE LISTING

DATE: 06/05/2001

PATENT APPLICATION: US/09/310,844A

TIME: 13:20:29

Input Set : A:\PTO.txt

Output Set: C:\CRF3\06052001\I310844A.raw

Does Not Comply  
Corrected Diskette Needed

m 5-6

Of

3 <110> APPLICANT: Ecker, David  
 4 Griffey, Richard  
 5 Crooke, Stanley  
 6 Sampath, Ranga  
 7 Swayze, Eric  
 8 Mohan, Venkatraman  
 9 Hofstadler, Steven  
 10 McNeil, John  
 12 <120> TITLE OF INVENTION: Molecular Interaction Sites Of Interleukin-2 RNA And Methods  
 13 Modulating The Same  
 15 <130> FILE REFERENCE: IBIS0171  
 17 <140> CURRENT APPLICATION NUMBER: 09/310,844A  
 18 <141> CURRENT FILING DATE: 1999-05-12  
 20 <160> NUMBER OF SEQ ID NOS: 416  
 22 <170> SOFTWARE: PatentIn version 3.0  
 24 <210> SEQ ID NO: 1  
 25 <211> LENGTH: 24  
 26 <212> TYPE: RNA  
 27 <213> ORGANISM: Artificial Sequence  
 29 <220> FEATURE:  
 30 <221> NAME/KEY: misc\_feature  
 31 <223> OTHER INFORMATION: Novel Sequence  
 34 <220> FEATURE:  
 35 <221> NAME/KEY: misc\_feature  
 36 <222> LOCATION: (1)..(4)  
 37 <223> OTHER INFORMATION: N is any nucleotide  
 40 <220> FEATURE:  
 41 <221> NAME/KEY: misc\_feature  
 42 <222> LOCATION: (6)..(12)  
 43 <223> OTHER INFORMATION: N is any nucleotide  
 46 <220> FEATURE:  
 47 <221> NAME/KEY: misc\_feature  
 48 <222> LOCATION: (14)..(15)  
 49 <223> OTHER INFORMATION: N is any nucleotide  
 52 <220> FEATURE:  
 53 <221> NAME/KEY: misc\_feature  
 54 <222> LOCATION: (17)..(24)  
 55 <223> OTHER INFORMATION: N is any nucleotide  
 58 <400> SEQUENCE: 1  
 59 ~~nnnnnnnnnn~~ nnnnnnnnnn nnnn  
 62 <210> SEQ ID NO: 2  
 63 <211> LENGTH: 31  
 64 <212> TYPE: RNA  
 65 <213> ORGANISM: Artificial Sequence  
 67 <220> FEATURE:  
 68 <221> NAME/KEY: misc\_feature  
 69 <223> OTHER INFORMATION: Novel Sequence

24

## RAW SEQUENCE LISTING

DATE: 06/05/2001

PATENT APPLICATION: US/09/310,844A

TIME: 13:20:29

Input Set : A:\PTO.txt

Output Set: C:\CRF3\06052001\I310844A.raw

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72 <400> SEQUENCE: 2
73 uuuaacaacau aaucuaguuu acagaaaaau c 31
76 <210> SEQ ID NO: 3
77 <211> LENGTH: 48
78 <212> TYPE: RNA
79 <213> ORGANISM: Artificial Sequence
81 <220> FEATURE:
82 <221> NAME/KEY: misc_feature
83 <223> OTHER INFORMATION: Novel Sequence
86 <220> FEATURE:
87 <221> NAME/KEY: misc_feature
88 <222> LOCATION: (1)..(4)
89 <223> OTHER INFORMATION: N is any nucleotide
92 <220> FEATURE:
93 <221> NAME/KEY: misc_feature
94 <222> LOCATION: (6)..(6)
95 <223> OTHER INFORMATION: N is any nucleotide
98 <220> FEATURE:
99 <221> NAME/KEY: misc_feature
100 <222> LOCATION: (12)..(14)
101 <223> OTHER INFORMATION: N is any nucleotide
104 <220> FEATURE:
105 <221> NAME/KEY: misc_feature
106 <222> LOCATION: (20)..(21)
107 <223> OTHER INFORMATION: N is any nucleotide
110 <220> FEATURE:
111 <221> NAME/KEY: misc_feature
112 <222> LOCATION: (24)..(24)
113 <223> OTHER INFORMATION: N is any nucleotide
116 <220> FEATURE:
117 <221> NAME/KEY: misc_feature
118 <222> LOCATION: (44)..(45)
119 <223> OTHER INFORMATION: N is any nucleotide
122 <220> FEATURE:
123 <221> NAME/KEY: misc_feature
124 <222> LOCATION: (48)..(48)
125 <223> OTHER INFORMATION: N is any nucleotide
128 <400> SEQUENCE: 3
129 nnnnanaugg gnnnucacan nuancugugu uccuauggaa acunnuun 48
132 <210> SEQ ID NO: 4
133 <211> LENGTH: 45
134 <212> TYPE: RNA
135 <213> ORGANISM: Artificial Sequence
137 <220> FEATURE:
138 <221> NAME/KEY: misc_feature
139 <223> OTHER INFORMATION: Novel Sequence
142 <400> SEQUENCE: 4
143 uaggauaugg gucacacua ucuguguucc uaggaaacu auuug 45
146 <210> SEQ ID NO: 5

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## RAW SEQUENCE LISTING

DATE: 06/05/2001

PATENT APPLICATION: US/09/310,844A

TIME: 13:20:29

Input Set : A:\PTO.txt

Output Set: C:\CRF3\06052001\I310844A.raw

147 <211> LENGTH: 44  
 148 <212> TYPE: RNA  
 149 <213> ORGANISM: Artificial Sequence  
 151 <220> FEATURE:  
 152 <221> NAME/KEY: misc\_feature  
 153 <223> OTHER INFORMATION: Novel Sequence  
 156 <400> SEQUENCE: 5  
 157 uaggagaugg gggucacacu uacuguguuc cuauggaaac uuug 44  
 160 <210> SEQ ID NO: 6  
 161 <211> LENGTH: 45  
 162 <212> TYPE: RNA  
 163 <213> ORGANISM: Artificial Sequence  
 165 <220> FEATURE:  
 166 <221> NAME/KEY: misc\_feature  
 167 <223> OTHER INFORMATION: Novel Sequence  
 170 <400> SEQUENCE: 6  
 171 uaggagaugg ggggucacac uuacuguguu ccuaugaaac uuuuug 45  
 174 <210> SEQ ID NO: 7  
 175 <211> LENGTH: 30  
 176 <212> TYPE: RNA  
 177 <213> ORGANISM: Artificial Sequence  
 179 <220> FEATURE:  
 180 <221> NAME/KEY: misc\_feature  
 181 <223> OTHER INFORMATION: Novel Sequence  
 184 <220> FEATURE:  
 185 <221> NAME/KEY: misc\_feature  
 186 <222> LOCATION: (6)..(8)  
 187 <223> OTHER INFORMATION: N is any nucleotide  
 190 <220> FEATURE:  
 191 <221> NAME/KEY: misc\_feature  
 192 <222> LOCATION: (14)..(15)  
 193 <223> OTHER INFORMATION: N is any nucleotide  
 196 <220> FEATURE:  
 197 <221> NAME/KEY: misc\_feature  
 198 <222> LOCATION: (18)..(18)  
 199 <223> OTHER INFORMATION: N is any nucleotide  
 202 <400> SEQUENCE: 7  
 203 **augggnnnuc acannuancu guguuuccuau** 30  
 206 <210> SEQ ID NO: 8  
 207 <211> LENGTH: 27  
 208 <212> TYPE: RNA  
 209 <213> ORGANISM: Artificial Sequence  
 211 <220> FEATURE:  
 212 <221> NAME/KEY: misc\_feature  
 213 <223> OTHER INFORMATION: Novel Sequence  
 216 <400> SEQUENCE: 8  
 217 augggucaca cuuauucugug uuccuau 27  
 220 <210> SEQ ID NO: 9  
 221 <211> LENGTH: 28

## RAW SEQUENCE LISTING

DATE: 06/05/2001

PATENT APPLICATION: US/09/310,844A

TIME: 13:20:29

Input Set : A:\PTO.txt

Output Set: C:\CRF3\06052001\I310844A.raw

```

222 <212> TYPE: RNA
223 <213> ORGANISM: Artificial Sequence
225 <220> FEATURE:
226 <221> NAME/KEY: misc_feature
227 <223> OTHER INFORMATION: Novel Sequence
230 <400> SEQUENCE: 9
231 augggggguca cacuuacugu guuccuau 28
234 <210> SEQ ID NO: 10
235 <211> LENGTH: 29
236 <212> TYPE: RNA
237 <213> ORGANISM: Artificial Sequence
239 <220> FEATURE:
240 <221> NAME/KEY: misc_feature
241 <223> OTHER INFORMATION: Novel Sequence
244 <400> SEQUENCE: 10
245 augggggguc acacuuacug uguuccuau 29
248 <210> SEQ ID NO: 11
249 <211> LENGTH: 17
250 <212> TYPE: RNA
251 <213> ORGANISM: Artificial Sequence
253 <220> FEATURE:
254 <221> NAME/KEY: misc_feature
255 <223> OTHER INFORMATION: Novel Sequence
258 <220> FEATURE:
259 <221> NAME/KEY: misc_feature
260 <222> LOCATION: (5)..(6)
261 <223> OTHER INFORMATION: N is any nucleotide
264 <220> FEATURE:
265 <221> NAME/KEY: misc_feature
266 <222> LOCATION: (10)..(10)
267 <223> OTHER INFORMATION: N is any nucleotide
270 <400> SEQUENCE: 11
271 caagnnuuuu uagcuug 17
274 <210> SEQ ID NO: 12
275 <211> LENGTH: 18
276 <212> TYPE: RNA
277 <213> ORGANISM: Artificial Sequence
279 <220> FEATURE:
280 <221> NAME/KEY: misc_feature
281 <223> OTHER INFORMATION: Novel Sequence
284 <400> SEQUENCE: 12
285 caagcauuug uagcuugu 18
288 <210> SEQ ID NO: 13
289 <211> LENGTH: 18
290 <212> TYPE: RNA
291 <213> ORGANISM: Artificial Sequence
293 <220> FEATURE:
294 <221> NAME/KEY: misc_feature
295 <223> OTHER INFORMATION: Novel Sequence

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## RAW SEQUENCE LISTING

DATE: 06/05/2001

PATENT APPLICATION: US/09/310,844A

TIME: 13:20:29

Input Set : A:\PTO.txt

Output Set: C:\CRF3\06052001\I310844A.raw

```

298 <400> SEQUENCE: 13
299 caagcguuug uagcuugu 18
302 <210> SEQ ID NO: 14
303 <211> LENGTH: 18
304 <212> TYPE: RNA
305 <213> ORGANISM: Artificial Sequence
307 <220> FEATURE:
308 <221> NAME/KEY: misc_feature
309 <223> OTHER INFORMATION: Novel Sequence
312 <400> SEQUENCE: 14
313 caagcauuua uagcuugu 18
316 <210> SEQ ID NO: 15
317 <211> LENGTH: 18
318 <212> TYPE: RNA
319 <213> ORGANISM: Artificial Sequence
321 <220> FEATURE:
322 <221> NAME/KEY: misc_feature
323 <223> OTHER INFORMATION: Novel Sequence
326 <400> SEQUENCE: 15
327 caagcauuug uagcuugu 18
330 <210> SEQ ID NO: 16
331 <211> LENGTH: 62
332 <212> TYPE: RNA
333 <213> ORGANISM: Artificial Sequence
335 <220> FEATURE:
336 <221> NAME/KEY: misc_feature
337 <223> OTHER INFORMATION: Novel Sequence
340 <220> FEATURE:
341 <221> NAME/KEY: misc_feature
342 <222> LOCATION: (21)..(21)
343 <223> OTHER INFORMATION: N is any nucleotide
346 <220> FEATURE:
347 <221> NAME/KEY: misc_feature
348 <222> LOCATION: (34)..(34)
349 <223> OTHER INFORMATION: N is any nucleotide
352 <220> FEATURE:
353 <221> NAME/KEY: misc_feature
354 <222> LOCATION: (37)..(38)
355 <223> OTHER INFORMATION: N is any nucleotide
358 <220> FEATURE:
359 <221> NAME/KEY: misc_feature
360 <222> LOCATION: (41)..(42)
361 <223> OTHER INFORMATION: N is any nucleotide
364 <220> FEATURE:
365 <221> NAME/KEY: misc_feature
366 <222> LOCATION: (44)..(44)
367 <223> OTHER INFORMATION: N is any nucleotide
370 <220> FEATURE:
371 <221> NAME/KEY: misc_feature

```

**Please Note:**

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

&lt;210&gt; 108

&lt;211&gt; 57

&lt;212&gt; DNA

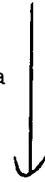
&lt;213&gt; Artificial Sequence

*see item 11 on Error Summary Sheet*

&lt;400&gt; 108

tatcttagga aaacagcttt caagtgcctt tctgcagttt ttcaggagcg caagata

57



The types of errors shown exist throughout the Sequence Listing. Please check subsequent sequences for similar errors.



# VERIFICATION SUMMARY

PATENT APPLICATION: US/09/310,844A

DATE: 06/05/2001

TIME: 13:20:30

Input Set : A:\PTO.txt

Output Set: C:\CRF3\06052001\I310844A.raw

L:59 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1  
 L:129 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3  
 L:203 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7  
 L:271 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11  
 L:401 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:16  
 L:475 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:18  
 L:557 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:20  
 L:641 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:23  
 L:701 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:26  
 L:777 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:31  
 L:1127 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:52  
 L:1561 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:80  
 L:1947 M:258 W: Mandatory Feature missing, <220> FEATURE:  
 L:1947 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION:  
 L:1984 M:258 W: Mandatory Feature missing, <220> FEATURE:  
 L:1984 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION:  
 L:2081 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:114  
 L:2483 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:141  
 L:2713 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:155  
 L:2715 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:155  
 L:2853 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:162  
 L:2855 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:162  
 L:2971 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:169  
 L:3049 M:258 W: Mandatory Feature missing, <220> FEATURE:  
 L:3049 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION:  
 L:3094 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:176  
 L:3102 M:258 W: Mandatory Feature missing, <220> FEATURE:  
 L:3102 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION:  
 L:3125 M:258 W: Mandatory Feature missing, <220> FEATURE:  
 L:3125 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION:  
 L:3134 M:258 W: Mandatory Feature missing, <220> FEATURE:  
 L:3134 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION:  
 L:3143 M:258 W: Mandatory Feature missing, <220> FEATURE:  
 L:3143 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION:  
 L:3214 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:183  
 L:3492 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:199  
 L:3560 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:200  
 L:3838 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:219  
 L:4168 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:236  
 L:4170 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:236  
 L:4350 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:247  
 L:4384 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:249  
 L:4460 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:254  
 L:4564 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:261  
 L:4654 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:264  
 L:4674 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:265  
 L:4848 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:277  
 L:4856 M:258 W: Mandatory Feature missing, <220> FEATURE:

**VERIFICATION SUMMARY**

PATENT APPLICATION: **US/09/310,844A**

DATE: 06/05/2001

TIME: 13:20:30

Input Set : **A:\PTO.txt**

Output Set: **C:\CRF3\06052001\I310844A.raw**

L:4856 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION:  
L:5037 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:287  
L:5155 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:295  
L:5175 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:296  
L:5195 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:297  
L:5215 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:298  
L:5235 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:299  
L:5269 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:301  
L:5289 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:302  
L:5351 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:306  
L:5385 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:308  
L:5417 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:309  
L:5437 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:310  
L:5457 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:311  
L:5477 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:312  
L:5497 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:313  
L:5517 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:314  
L:5551 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:316